

Abstract of the Disclosure:

A force sensing device has a single-component metal housing. The housing has an upper rigid housing part and a lower rigid housing part that are interconnected by way of U-shaped spring elements and can be elastically displaced along a displacement axis in relation to each other by the action of a force. The spring elements are symmetrically arranged in relation to a section that is parallel to the displacement axis. A deflection sensor is disposed between the upper and lower rigid housing parts, for detecting the relative displacement of the two rigid housing parts in relation to each other. The housing is produced using metal injection molding technology.